



FEEDLINE



BULLETIN OF THE CANTON AMATEUR RADIO CLUB

Affiliated with the "American Radio Relay League"

50th YEAR ANNIVERSARY 1941 - 1991

DECEMBER....1991

PRESIDENT- Mark Warrington	N8LZB	SECY - Jerry Shrigley	K8BAHF
VICE PRES - Frank Dearman	W8TUY	EDITOR - Bill Parks	K8JZN
TREAS - Larry Schmader	K8RMY	ASST - Mickie Parks	XYL

Trustees

Dave Ost	W8BPTU	Craig Stucker	N8KNW
Chuck Henley	N8LIV	Dave Beltz	W8BAYE
Scott Mathews	N8JSK	Kent Rothermel	K8BLNG

The C A R C meets the third Wednesday of the month at 7:30 PM.

NEXT MEETING IS DECEMBER 18TH at the EMERGENCY PREPAREDNESS CENTER.

MERRY CHRISTMAS & HAPPY NEW YEAR

NEW MEMBERS FOR 1991-1992 FISCAL YEAR

On December 1st, the new mailing list for the new fiscal year Oct 1991 to Oct 1992, was made up. If you received this Feedline, you will continue to receive it till December 1992. The fiscal year ends October 1st 1992, but we give a two month grace period till December 1st, 1992 (aren't we nice?).

The officers wish to WELCOME all you members back into the fold and a SPECIAL WELCOME to the many new members for this year. These include some former members, that left their membership lapse and several new Amateurs, many that were given a courtesy membership this past year, that are joining for the first time.

I hope I don't forget any but here is the list of new members that I can think of: Ron Sides N5RRD, Richard Beaman Jr KF6ME, Vic Bell N8AAE, Ed Clinger W8DRT, Jim Darrah WD8DTP, Scott Warstler N8EYM, Dave Raines KE8HA, Darrell Shaffer N8HHP, Maynard Hershberger KE8HQ, Dan Barrett N8IGY, John Stanfield KB8JTI, Joe Horvath W8KDM, Steve Voican WD8MCC, Mark Ladnow KB8MHQ, Bob Foss KB8MOK, Bernie Wickham KB8MSL, Gary Lewis KB8MSX, Bob Schmucker N8NDH, Jim Thrasher N8NGZ, Robert Knotts N8NMY, Scott Klemens N8NVP, Johnny Sible Jr N8OUR, Russ McMahan N8PII and Ken Kroninger N8PIM.

Again, a BIG WELCOME, and it is nice to see many of you attending the club meetings. Your ideas, suggestions and input on ways to improve our club and make the meetings more enjoyable, are most welcome. It is the active members, not just the elected officers, that makes the club function. We need chairpersons and participating members, for several committees. Volunteer and actively take part in the operation of your club.

As the year progresses, former chairmen will be asked by our new President Mark N8LZB, to continue being the leaders and several new committees will be formed, as the need arises. Be ready to do your part and VOLUNTEER.

DX ANTENNA HEADINGS

Thanks to fellow CARC member, Dag W8LVL, enclosed is a list of DX stations through out the world, with antenna bearings and distance from Canton Ohio. Dag found a neat little computer program, originated from the RALEIGH NC HAM CLUB "EXCITER" BULLETIN. He entered the Canton Latitude and Longitude in the program, then looked up all the locations of the DX cities and countries and copied the antenna bearing and distance that the computer program figured out for the GREAT CIRCLE BEARING to the DX country. Dag also lists the program, so you may enter and figure out any city not listed on this list.

VOLUNTEER EXAMS

On Saturday November 30th, Amateur exams were given at the EOC by Dick Stellarini W8BVUN and his fine team of Certified Volunteer Examiners.

Twenty one participants, out of thirty six that took tests, were successful in up-grading. Some of the others successfully passed some elements and were given certificates of completion but did not gain an up-grade.

We have 3 new Technicians, 12 new No-Code Technicians, 3 new General Class, 2 new Advanced Class and 1 new Extra Class. Unfortunately, I did not get the addresses of the participants, so can not give full details. CARC members that up-graded are: Marko KB8MHQ to General, Byron N8NFI to Advanced, Bob N8NDH to General, Dan N8LVO to Extra Class and Jim WD8DTP to Technician. Other Stark County hams were Don WD8DEA to General and David McCune (son of W8LNK & N8AIM) to No-Code Technician.

Team members besides Dick W8BVUN, were Bill W8GLFM, Mike W8BMKH and John N8BK doing the paper work, Art W8FEC administering the CW tests and observing the test area, Kay W8LNK, Judy N8AIM, Randy K8BJN and John K8BNR taking care of the No-Code testing.

If you hold an Extra Class or Advanced Class Amateur license and would like to help with the testing, contact Dick W8BVUN for information on how to become a Certified Volunteer Examiner. The team could use some more volunteers.

Last test session of this year, in this area, will be on Saturday December 14th, in Ravenna. 1992 schedule calls for January 11th at Akron University; January 25th by Goodyear and February 29th here in Stark County at the Emergency Operating Center. Test fee for 1992 will be \$5.40 (still no charge for Novice Test).

MINUTES OF NOVEMBER CARC MEETING

The November 20, 1991 regular meeting of the Canton Amateur Radio Club was called to order at 7:35 PM by President Mark Warrington N8LZB, at the Emergency Preparedness Center. The usual round of introductions followed, with 54 members and 5 guests in attendance.

SECRETARY'S REPORT - There were no additions to the minutes of the October meeting and they were approved as published.

TREASURER'S REPORT - Larry Schmader K8RMY, reported a balance of \$3209.00 in the club treasury.

PRESIDENT'S REPORT - Mark Warrington N8LZB, reported that he is looking for volunteers to form a Computer Committee. This committee will be responsible for educating the club membership in the use of the club's computer and performing file maintenance.

A new Repeater Committee has been formed. The committee consists of Bob Schmucker N8NDH, Kent Rothermel K8BNLG and Chairman Jerry Shrigley K8BAHF.

The trustees decided to purchase a printer and two sets of head-phones for use in the club shack.

Jerry Shrigley K8BAHF, reported that the club's repeater is back on the air. The height at ground level at the new repeater site, is 1230 feet above sea level.

50/50 DRAWING - \$20.00 was won by Bill MacNealy W8BLFM.

PROGRAM - The program for the evening was the video "HAMS IN SPACE".

After the video, the meeting adjourned for coffee, donuts and eyeball QSO's.

Respectfully submitted by
Jerry Shrigley K8BAHF
CARC Secretary

FROM THE REPEATER COMMITTEE

The RC-850 controller is now on line on the club's repeater 146.79. The Mail Box and the Phone-Patch features are now enabled. Your Auto Dial and Mail Slot numbers have remained unchanged. The mail slot messages are now the same as those in the WDSAYE machine. There are a few Auto Dial locations open. If you would like one, or have changed your call or phone number, please contact Bob Schmucker N8NDH or Jerry Shrigley K8BAHF.

1992 CALLBOOKS ARE HERE

The club has just purchased the 1992 Callbooks. The North American callbook custodian is Bill K8JZN and the DX callbook custodian is Art WBFEK. If you work someone that is not listed in your callbook, give the custodian a call and he will give you the address.

If you want a new callbook, KenMar now has them in stock. Give Ken or Sue a call on 499-7388.

QSL INFORMATION

Thanks to the ARRL, we have an Out-going QSL Bureau and an In-coming QSL Bureau. They both work differently so will try to explain the proper way to use them.

OUT-GOING DX QSL BUREAU - If you are a member of the Canton Amateur Radio Club (you must be or you would not receive this newsletter, Hi) and a member of the ARRL, you can mail out your DX QSL cards for free. Kay W8LNK is our club manager for this service. Please use the following guidelines:

Prepare your cards and give them to Kay W8LNK along with your MOST RECENT QST MAILING LABEL (this is a must, even if you are only sending one card). Kay would like to have enough cards to send at any one time to make it worth while. The cost is absorbed by the club for the postage and the \$2.00 processing fee to the ARRL. A real bargain for you members.

IN-COMING 8TH DISTRICT QSL BUREAU - This is an all volunteer service. Prepare at least two (or more if you expect a large amount of cards) 5" x 7 1/2" to 6" x 9 1/2" envelopes (no smaller - no larger). In the upper left hand corner, print your call letters in bold print at least 1/2 inch high. It is a SASE, so put on your mailing address complete and a 29 cent stamp. This amount of postage will handle 6 to 8 cards. When the bureau sends your last envelope, it will be marked "LAST ENVELOPE AT BUREAU", so you can prepare some more envelopes.

The QSL Bureau does not handle USA to USA cards unless from bonafide QSL managers. The address to send these envelopes is:

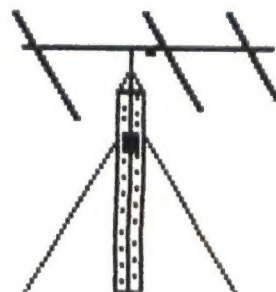
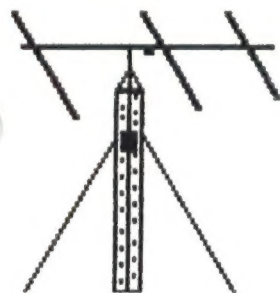
8th AREA QSL BUREAU
P.O. BOX-182165
COLUMBUS, OHIO 43218-2165

PREFIX	COUNTRY_CITY	BEARING	DISTANCE	PREFIX	COUNTRY_CITY	BEARING	DISTANCE
V33	CHAGOS-DIEGO GARCIA...	43	9636	W8	WY-CHARLESTON...	184	166
V36	PITCAIRN IS...	224	5588	W9	IL-CHICAGO...	285	338
V55	BRUNEI-BON SERI BEGAWAN	338	9106	W9	IN-INDIANAPOLIS...	256	262
V56	HONG KONG...	343	3216	W9	WI-MILWAUKEE...	227	367
VU	INDA-NEW DELHI...	20	7440	X44-X14	REVILLA GIGEDO IS...	241	2394
VU	INDIA-BOMBAY...	23	7998	XE-XI	MEXICO-MEXICO CITY...	228	1800
VU	INDIA-CALCUTTA...	11	8038	XT	BURKINA-FASO...	88	5078
VU7	ANDAMAN & NICOBAR IS...	3	3899	XU	KHMER REP-PHNON PENH...	32	8125
VU7	LACCADIVE IS...	31	9559	XV	VIETNAM-HO CHI M CITY...	350	8896
W0	CO-DENVER...	273	1249	XW	LAO REP-VIENTIANE...	355	8358
W0	KS-WITCHITA...	261	875	XY-XZ	BURMA-RANGOON...	4	9370
W0	MN-MINNEAPOLIS...	300	667	YA	AFGHANISTAN-KABUL...	24	6899
W0	MO-KANSAS CITY...	265	760	YB-YH	INDONESIA-JAKARTA...	346	19010
W0	NE-OMAHA...	277	760	YI	IRAQ-BAGHDAD...	36	6610
W0	ND-BISMARCK...	300	1948	YJ	NEW HEBRIDES...	210	8920
W0	SD-PIERRE...	291	1004	YK	SYRIA-DAMASCUS...	41	6394
W0	MO-ST LOUIS...	255	491	YL	LITHUANIA-VILNA...	38	4562
W1	CT-HATFORD...	78	456	YN	LATVIA-RIGA...	36	4449
W1	ME-BANGOR...	62	694	YO-YR	NIGARUA-MANAGUA...	159	1374
W1	MA-BOSTON...	75	548	YS	ROMANIA-BUCHAREST...	40	5438
W1	NH-CONCORD...	70	539	YT-YU	EL SALVADOR-SANSALVADOR	196	1974
W1	RI-PROVIDENCE...	79	523	YV	YUGOSLAVIA-BELGRADE...	48	4833
W1	VT-MONTPELIER...	59	508	YV-YI	VENZUELA-CARACAS...	153	2285
W2	TRENTON...	95	349	YV0	AVES IS...	95	4455
W2	NY-BUFFALO...	41	194	Z2	ZIMBABWE-HARARE...	82	8656
W2	NY-NEW YORK CITY...	88	387	ZA	ALBANIA-TIRANA...	68	3122
W2	NY-SYRACUSE...	60	312	ZB	GIBRALTA...	96	1473
W3	DE-WILLINGTON...	101	313	ZD7	SAINT HELENA-JAMESTOWN...	117	5801
W3	PA-PHILADELPHIA...	97	314	ZD8	TRISTAN-DA CUNHA...	131	6916
W3	DC-WASHINGTON...	118	268	ZE	ZIMBABWE-HARARE...	39	8193
W3	MD-BALTIMORE...	111	274	ZF	CAYMAN IS...	180	1494
W3	PA-PITTSBURGH...	110	78	ZK1	S COOK IS-AVARUA...	246	6573
W4	AL-MONTGOMERY...	213	517	ZK1	N COOK IS...	22	6896
W4	FL-MIAMI...	176	1038	ZK2	NIUE IS...	254	6371
W4	GA-ATLANTA...	200	510	ZK3	TOKELOU IS...	260	6436
W4	KY-LOUISVILLE...	235	291	ZL-ZM	NEW ZEALAND-AUCKLAND...	245	5489
W4	NC-CHARLOTTE...	177	387	ZL2	NZ-WELLINGTON...	232	5895
W4	SC-COLUMBIA...	177	470	ZL3	NZ-CHISTCHURCH...	241	8217
W4	TN-KNOXVILLE...	210	379	ZL4	NZ-DUNEDIN...	239	9327
W4	VA-RICHMOND...	135	316	ZL5	ANTARCTICA-SCOTT BASE...	196	9279
W4	AR-LITTLE ROCK...	239	724	ZL7	CHATHAM IS...	236	8274
W5	LA-NEW ORLEANS...	216	894	ZL8	KERMADEC IS...	249	7381
W5	MS-JACKSON...	223	762	ZL9	AUCKLAND & CAMP, IS...	233	9145
W5	NM-ALBUQUERQUE...	262	1430	ZP	PARAGUAY-ASUNCION...	17	4875
W5	TX-DALLAS...	246	1106	ZR-ZS	S AFRICA-CAPETOWN...	112	8140
W5	TX-HOUSTON...	230	1092	ZS2-Z02	MARION & P.E. IS...	150	9413
W5	TX-SAN ANTONIO...	236	1242	ZR3-ZU3	NAMIBIA-WINDHOK...	192	7817
W6	CA-LOS ANGELES...	269	2061	ZS5	S AFRICA-DURBAN...	182	8393
W6	CA-SAN DIEGO...	266	2032	ZS6	S AFRICA-JOHANNESBURG...	99	8342
W6	CA-SDN FRANCISCO...	273	1900				
W7	AZ-PHOENIX...	263	1748				
W7	ID-BOISE...	288	1777				
W7	MT-HELENA...	295	1568				
W7	NV-LAS VAGAS...	271	1547				
W7	OR-PORLAND...	293	2083				
W7	UT-SALT LAKE CITY...	280	1591				
W7	WA-SEATTLE...	297	2053				
W7	WA-SPOKANE...	297	1825				
W7	WY-CHEYENNE...	279	1196				
W8	MI-DETROIT...	322	132				
W8	OH-CINCINNATI...	235	262				
W8	OH-CLEVELAND...	342	51				













10 CLS
20 PRINT
30 PRINT
40 PRINT
50 "ORIGINAL PROGRAM FROM RALEIGH NC HAM CLUB "EXCITER" BULLETIN, APRIL 1988
60 D = 1 : K = 111.11 : M = 57.29675 : N = 60 : S = 69.441 : PRINT
70 PRINT "ENTER NEGATIVE (-), VALUES FOR SOUTHERLY LONGITUDES"
80 PRINT "ENTER NEGATIVE (-), VALUES FOR EASTERLY LONGITUDES":PRINT
90 IF D < 1 THEN 120
100 A = 40.8 / M : CANTON-LATITUDE IN DEGREES DIVIDED BY M
110 LI = 81.4
120 INPUT "TARGET LATITUDE IN DECIMAL DEGREES " : B
130 IF B = 0 THEN 310
140 B = B / M
150 INPUT "TARGET LONGITUDE IN DECIMAL DEGREES " : L2
160 L = (LI - L2) / M
170 E = SIN(A) * SIN(B) + COS(A) * COS(B) * COS(L)
180 D = -ATN(E / SQR(1-E * E)) + 1.57079
190 C = (SIN(B) - SIN(A) * E) / (COS(A) * SIN(D))
200 IF C > 1 THEN C = 1 : GOTO 220 ELSE IF C < -1 THEN C = -1 : GOTO 220
210 C = -ATN(C / SQR(1-C * C)) + 1.57079
220 C = C * M
230 IF SIN(L) < 0 THEN C = 360 - C : PRINT
240 PRINT "THE BEARING IS " : C : " DEGREES"
250 PRINT "THE GREAT CIRCLE DISTANCE IS " : S * D * M : "STATUTE MILES"
260 PRINT:INPUT "ANOTHER CALCULATION(Y,N) : " : Q\$: IF Q\$ = "N" THEN 290
270 IF Q\$ = "N" THEN 290
280 GOTO 10
290 PRINT: PRINT "THANKS FOR USING THE PROGRAM: GOOD BY & 731 DE WELLY DAG"
300 END
310 PRINT: PRINT "THE MATHEMATICS WON'T WORK WITH A LATITUDE OF ZERO DEGREES."
320 PRINT: PRINT "THE PROGRAM AGAIN WITH A SMALL LATITUDE, (0.001) DEGREES"

PM

JANUARY 1992 CANTON ARC



S M T W T F S

			1  CFARC QCWA NET 8PM NEW YEAR'S DAY N8MWS BD	2 TUSCO RC ALLN RC	3 MARC 8PM NOON LUNCHEON VILLAGE BUFFET	4  KF8MR BD N8LZB BD BREAKFAST AT COUNTRY MANOR
5 MUTUAL AID NET	6  WA8RQX BD	7 ARES 7PM SDXA 8PM	8 QCWA NET 8PM	9  GOODYEAR ARC WB8EC BD ESC N&I NET 9PM	10 NOON LUNCHEON VILLAGE BUFFET	11 BREAKFAST AT COUNTRY MANOR
12 MUTUAL AID NET	13  AK8W BD TRUSTEE'S MTG ELYRIA ARC	14 ARES 7PM	15  CARC 7:30PM CFARC	16 TUSCO & SARA ESC N&I NET 9PM	17  WA8NZE BD NOON LUNCHEON VILLAGE BUFFET	18 ARRL VHF SWEEPSTAKES BREAKFAST AT COUNTRY MANOR
19 MUTUAL AID NET ARRL VHF SWEEPSTAKES	20 NOARS	21  ARES 7PM W8UIL BD B&W RC	22 PORTAGE RC QCWA NET 8PM	23  KF8LZ BD ESC N&I NET 9PM	24 NOON LUNCHEON VILLAGE BUFFET	25  GOODYEAR VE BREAKFAST AT COUNTRY MANOR
26 MUTUAL AID NET	27  KK8D BD	28 ARES 7PM LEARR	29  QCWA NET 8PM WB8MSE BD	30 ESC N&I NET 9PM	31 NOON LUNCHEON VILLAGE BUFFET	